

AbstractReactor for Performing a Strongly Heat-Conditioned
Catalytic Reaction

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The invention relates to a reactor for performing a strongly heat-conditioned catalytic reaction in a process fluid, equipped with plates that are arranged parallel to one another at a distance and that form flat channels with lateral boundary areas that face one another, whereby a portion of the channels contains a solid catalyst and carries the process fluid, and another portion of the channels guides a heat transfer medium in indirect heat contact with the process fluid.

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According to the invention, plates (1) are flat or are provided with grooves or ribs, and plates (1) are coated at least partially with catalyst (6) on the surface that faces the process fluid.